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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No : TC-5548

Format No: CP/TE/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2022-03-17-21
		Date: 21-12-21
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore
Address	:	Kodigehalli Sub Division, BBMP, Bangalore
Project Name	:	Improvements to footpath and roads in Ward No 8.
Agency	:	Sri. Kumar Akshay. S, No: 13, 2nd Cross, Yamalur, Post, B Nagasandra, Bangalore - 560037
Customer's Reference	:	BBMP/EE/BTP/WO/16/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-11-21
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	23-11-21
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

* The results obtained are satisfactory as per standard requirements

Note:

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

CIVIL Pro Sig Date BANGALORE

FOR CIVIL Pro
R RUDRAPRASAD
Authorized Signatory
Technical Manager

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2022-03-17-21** **Date: 25-11-21**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore
Project Name	:	Improvements to footpath and roads in Ward No 8
Agency	:	Sri. Kumar Akshay S, No 13, 2nd Cross, Yamalur, Post, B Nagasandra, Bangalore - 560037
Customer's Reference	:	BBMP/EE/BTP/WO/16/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-11-21
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification IS 4031 (Part 1,2,3,4,5, 6,11) 1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5 Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	23-11-21
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.1	-
2	Finess by Air permeablity method (m^2/kg Min)	284.5	225m^2/kg, Min
3	Density (gm/cc)	3.13	-
4	Standard Consistency (%)	28%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (I.e Chatelier's Method)	2mm	Not more than 10 mm

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All information furnished by Customer Representative

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

CIVIL Pro Sig..... Date..... BANGALORE

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RRU DRAPRASAD
Authorized Signatory
Technical Manager

****End of Report****

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QC ABSTRACT

NAME OF WORK: Improvements to footpath and roads in Ward No 8.

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
3	KERB	Core Compressive strength	One Test		1	1
		Corrected Cylinder Compressive strength	One Test		1	1
		Equivalent Cube Compressive strength	One Test		1	1
4	Cement Concrete Designer Tiles	Water Absorption	One Test		1	1
		Wet Transverse Strength	One Test		1	1

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	CP-2022-03-17-21 **Date: 24-11-21**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to footpath and roads in Ward No 8.
Agency	:	Sri. Kumar Akshay. S, No: 13, 2nd Cross, Yamalur, Post, B Nagasandra, Bangalore - 560037
Customer's Reference	:	BBMP/EE/BTP/WO/16/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-11-21
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	22-11-21
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2022-03-17-21

Date: 24-11-21

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	
2	Specific Gravity	2.59	
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%. Crushed Fine aggregate Max 15%. Mixed Fine aggregate Max 12%. Manufactured Fine aggregate Max 10%.

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R RUDRAPRASAD
Authorized Signatory
Technical Manager

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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TEST REPORT OF CEMENT CONCRETE KERB STONE

Lab ID	:	CP-2022-03-17-21	Date: 01-12-21
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore	
Address	:	Kodigehalli Sub Division, BBMP, Bangalore	
Project Name	:	Improvements to footpath and roads in Ward No 8	
Agency	:	Sri. Kumar Akshay, S. No. 13, 2nd Cross, Yamalur, Post, B Nagasandra, Bangalore - 560037	
Customer's Reference	:	BBMP/EE/BTP/WO/16/2021-22	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	27-11-21	
Sample Type /Size	:	CC Kerb Stone/ 450*165*400mm	
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete	
Date of test	:	27/11/2021	

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	Kg	(Sq.mm)	(KN)	(N/mm2)	(N/mm2)	(N/mm2)
1	A	100.04	165.54	2.923	7859	142.5	18.1	18.1	22.7
2	B	100.02	165.45	2.854	7856	146.5	18.6	18.6	23.3
3	C	100.03	165.35	2.654	7857	143.5	18.3	18.3	22.8

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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Authorized Signatory
Technical Manager

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CEMENT CONCRETE FLOORING TILES

Lab ID	:	CP-2022-03-17-21 Date: 16-12-21
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to footpath and roads in Ward No 8
Agency	:	Sri. Kumar Akshay. S, No: 13, 2nd Cross, Yamalur, Post, B Nagasandra, Bangalore - 560037
Customer Reference	:	BBMP/EE/BTP/WO/16/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-12-21
Sample Type	:	Pre-Polished Designer Cement Concrete Tiles
Reference to BIS codes	:	IS 1237:2012
Date of test	:	11-12-21

1. Water Absorption

Sl.No.	Measured Dimension (mm)			Water Absorption	Average	Requirement as per IS:1237-2012
	L	B	T	(%)	(%)	
1	400	399	25.1	2.530	2.21	The average percentage of water absorption shall not exceed 10.
2	401	401	25.06	1.920		
3	400	401	25.11	2.170		
4	400	399	25.15	2.060		
5	399	400	25.18	1.800		
6	400	400	25.19	2.760		

2.Wet Transverse Strength

Sl.No.	Measured Dimension (mm)			Wet Transverse Strength	Average	Requirement as per IS:1237-2012
	L	B	T	(N/mm^2)	(N/mm^2)	
1	401	401	25.02	7.83	7.8	The average wet transverse strength shall not be less than $3N/mm^2$.
2	401	401	25.04	8.16		
3	400	399	25.06	7.51		
4	399	401	25.01	7.88		
5	400	400	25.05	8.25		
6	401	399	25.03	7.29		

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